Department of Purchasing & Contract Compliance



Cecil S. Moore, CPPO, CPPB, CPSM, C.P.M., A.P.P. Director

September 29, 2009

Re: #09ITB1005K-JD Interior Renovation 137 Peachtree Street Building

Dear Bidders:

Attached is one (1) copy of Addendum 4, hereby made a part of the above referenced #09ITB1005K-JD Interior Renovation 137 Peachtree Street Building.

Except as provided herein, all terms and conditions in the #09ITB1005K-JD Interior Renovation 137 Peachtree Street Building referenced above remain unchanged and in full force and effect.

Sincerely,

Joyce Daniel

Joyce Daniel, CPPB Assistant Purchasing Agent



#09ITB1005K-JD Interior Renovation 137 Peachtree Street Building Addendum No. 4 Page Two

This Addendum forms a part of the contract documents and **modifies** the original RFP documents as noted below:

• MANDATORY SITE VISIT CLARIFICATION – Section 00100, Instructions to Bidders, D. Mandatory Site Examination, Page 10 – states "There will be a mandatory site visit for this project. It will be held immediately following the preconference on Thursday, September 10, 2009. Bidders are required to attend."

The second Mandatory Site Visit requirement has been cancelled. Vendors submitting a bid must have attended the first Mandatory Site Visit that was held on September 10, 2009 in order to submit a bid.

- Change to Addendum 1 signature page: ACKNOWLEDGEMENT OF ADDENDUM NO. 1 date is changed from 2008 to 2009.
- Section 00700, General Conditions, 00700-3 Definitions, Page 79 the term CPM Critical Path Method is to be added as a definition.
- Section 00700, General Conditions, 00700-87 Changes in the Work, A., Change Orders, #3, item c, Page 99 the following is added:
- Section 00700, General Conditions, 00700-48 Suspension, Interruption, Delay, Damages, Page 93 is changed to the following:

• <u>00700-48 RESPONSIBILITY FOR COMPLETION, TIME OF COMPLETION AND LIQUIDATED DAMAGES</u>

1. Duty to Accelerate

Subject to the other provisions of the Agreement Documents, Contractor shall furnish such manpower, Materials, facilities, and Equipment and shall work such hours, including night shifts, overtime operations and Sunday and holidays, as may be necessary to ensure the prosecution and completion of the Work in accordance with the approved and currently-updated Critical Path Method (CPM) Schedule. If Work actually in place falls behind the currently updated and approved CPM Schedule, and it becomes apparent from the current approved CPM Schedule that the Work will not be completed within the Agreement Time, Contractor agrees that it will, as necessary or as directed by the County, take some or all of the following actions at no additional cost to the County to improve its progress:

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- Increase manpower in such quantities and crafts as will eliminate, in the judgment of the County, the delay and backlog of Work;
- (2) Increase the number of working hours per shift, shifts per working day, working days per week, the amount of equipment or any combination of the foregoing, sufficiently to eliminate in the judgment of the County, the delay and backlog of Work;
- (3) Reschedule activities as necessary to eliminate in the judgment of the County the delay and backlog of Work; and
- (4) Any other measure required by the schedule requirements of the Special Conditions.

In addition, the County may require Contractor to submit a proposed revised CPM Schedule Recovery Plan demonstrating its program and proposed plan to make up lag in scheduled progress and to ensure completion of the Work within the Agreement Time. If the County finds the proposed plan not acceptable, the County may require Contractor to submit a new and/or revised plan with direction and other input from the County and Engineer.

2. Liquidated Damages

It is understood and agreed that the County will sustain substantial monetary and other injury and damages, including, but not limited to, increased costs, expenses and liabilities in the event of failure by Contractor to perform its Work in accordance with the Completion and any Interim Milestone Date(s) set forth in the CPM Schedule prepared in accordance with the Special Conditions. Accordingly, should Contractor not complete the Work, or any such portion thereof, within the date(s) required by the CPM Schedule initially approved by the Engineer, as they may be adjusted pursuant to the Agreement Documents, then charges shall be assessed against any money due or that may become due Contractor in accordance with the following schedule:

For Each day of delay in Substantial Completion of the entire Work: \$1,500/day

For Each day of delay in Final completion of the entire Work: \$1,500/day

The amount of such charges is hereby agreed upon as fixed liquidated damages due the County after the expiration of the Agreement Date(s) for completion specified in the CPM Schedule for the Work or portions thereof. Contractor and its surety shall be liable for any liquidated damages in excess of the amount due Contractor on the Final Payment.

If the CPM Schedule projects any untimely completion with unexcused delay and the County in good faith believes that retainage will be insufficient to cover the County's

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damages, Contractor agrees that the County may withhold additional funds to assure the payment of the liquidated damages owed by Contractor.

3. No Penalty

The fixed liquidated damages are not established as a penalty but are calculated and agreed upon in advance by the County and Contractor due to the uncertainty and impossibility of making a determination as to the actual direct, incidental and consequential damages which are incurred by the County as a result of the failure on the part of Contractor to complete he Work within the Agreement Time and completion date(s) specified in the Agreement Documents. Liquidated damages shall start in accordance with the above schedule upon notification to Contractor in writing that all apparent Agreement Time allowed to achieve the relevant completion date has been consumed. Liquidated Damages as they accrue will be deducted from periodic partial payments to the extent they are sufficient to cover the liquidated damages owing; provided that any excess liquidated damages owing over the periodic partial payment amount may be deducted from retainage. Such deduction shall be in addition to the retainage provided for in the Agreement Documents. The remaining amount of liquidated damages owing upon completion will be deducted from any amounts owing as Final Payment to Contractor or his surety. Any excess amount owing as liquidated damages shall be paid upon demand.

Response to Questions:

Question: On cost proposal form, how do we fill out quantity column? (Some trades, such as HVAC, Electrical are hard to define by quantity).

Answer: Report cost as a Lump Sum.

Question: Can we get an estimated value of this project or a budget? It's hard to do projects without this, because we need a rough number to give to boding company to order in advance so the bond arrives on tie. Also need to know because if the project is more than we can get bonded for, there is no need in us wasting our time and money to find out that we can't get the bond.

Answer: Fulton County does not provide budget information on projects. The bonding company should be able to provide a bond based on the total bid amount.

Question: There are no electrical drawings provided and no electrical specifications. Provide missing information.

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Answer: The electrical drawings are included in the revised drawings dated 9/16/09. The electrical specifications are on the electrical drawings.

Question: Please provide a detail description of what constitutes a damage ceiling tile. Dirt, smudge, scratch etc. we need directive or provide a percentage that should be accepted as basis for the amount of the alternate.

Answer: Figure 15% of the ceiling tiles as "damaged". A pre-construction walk thru with the Owner will be conducted where the damaged tiles that are to be replaced will be agreed upon.

Question: Provide drawing for the Main Floor Finish Plan, none provided.

Answer: Refer to Drawing A-1.6 for Main Floor Finish Plan.

Question: In the following rooms G0003, G0006, G0011, G0012, G0013 there are windows. Plans do not have a window schedule or elevation. Provide missing elevations and material type of frames. There is no specification on the type glass required. Provide missing glass and glazing specification.

Answer: Refer to window detail sections Sheet A-1.6, sizes indicated on Sheet A-1.6 and Specifications Section 08520-Aluminium Windows.

Question: Specification 07100-3.1A.1 outlines that the waterproofing coating shall be applied to the water side of walls. Sheet A1.6 outlines for Water proofing sealant to be applied to the exposed floor not as specifications provide. Provide waterproofing product that can be used in the correct application.

Answer: See Specification Section 07620 Surface Applied Vapor Reduction Systems that replaces Section 007100 Waterproofing and Moisture Proofing. Delete Section 07100. See also attached product data sheet for Aquafin SG3/FC, which is an acceptable product that should be applied at a moisture vapor emission rate of 25 lb.

Question: No demolition sheet is provided for the main floor level. Provide missing information.

Answer: No demolition is required on the main floor except for removal of carpet in preparation for cleaning and sealing the floor. Refer to Specification Section 07260 Surface Applied Vapor Reduction Systems.

Question: Specification 121520-3.4, indicate cellular blinds throughout project. Does this also include all interior window units?

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Answer: Cellular blinds will <u>not</u> be used. The contractor is to replace slat style blinds to match existing blinds that are damaged. For the purpose of this quote figure that 15% of the existing blinds will need to be replaced.

Question: Detail 3 on A-3.1 label incorrectly as 3/A2.2 refers to fence and gate specification. None exist, provide missing specifications and elevations.

Answer: Detail 3/A-3.1 should read 1/A-3.1. Gate and Fence to be fabricated as per elevations E1A/A-3.1 and N1/A-3.1. Perforated steel is 18 gauge powder coated steel by Accurate Metal Fabricators or equal. Pattern type is Accurate Perforating.

Question: In the pre bid meeting and walk through it was explained that there would be no exterior work and such work was under separate contracts. Is the work portrayed on Sheet A3.1 a part of our scope of work?

Answer: Yes, the work indicated on sheet A-3.1 is part of this work. Also, waterproof Sealant on the Main Floor, Sealant between the sidewalk and building walls on the north and east sides, and the joint between the building an asphalted area at the southwest building wall are all included in the contract.

Question: In the pre bid meeting and walk through it was explained that the waterproofing work was under separate contracts. Does this include the waterproof sealant as noted on A1.6?

Answer: Waterproof Sealant on the Main Floor, Sealant between the sidewalk and building walls on the north and east sides, and the joint between the building an asphalted area at the southwest building wall are all included in the contract.

Question: Provide cut section on cabinetry to indicate all finish surfaces. There are none no to indicate if there is solid surface, where plastic laminate occurs or if some areas are paint grade.

Answer: See Revised Drawing A-2.3, Details 6 and 7/A-2.3. See SK#1 – **SEE ATTACHMENT #2**.

Question: What is the composite of the existing roof? Is the roof bonded? Who is the roofer of record? Roof penetration will occur for new exhaust fans.

Answer:

What is the composite of the existing roof? LDG: Field Verify

Who's the roofer of record? LDG: Request info from Owner

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Roof penetration will occur for new exhaust fans. LDG: New restrooms' exhaust is tied back to existing exhaust riser. Roof penetration is existing. Existing roof exhaust fan is to be replaced and roof curb is to be modified as necessary to accept new exhaust fan. Refer to M-2.0 and M-3.0

Question: If sidewalk is in our scope of work, will a separate permit be required to remove and replace it?

Answer: A sidewalk permit will be required.

Question: Window openings are noted (as example) 4'-2" x 3'-7" meaning width by height, but wall measurements reflect just the opposite. Clarify width and demission height. It reflects as to where the sill is to be placed.

Answer: The height dimension is 4'-2". The sill is to be 35" aff. The window head and the existing door frame heads are to line up.

Question: Provide missing specification for VAT floor Finish in Rooms G104 & G310.

Answer: The flooring in rooms G310 and G104 should read VCT not VAT. Refer to Specification 09620.

Question: Provide specifics of requirement on Sheet A-1.7& A-1.8 to the comment Patch Brick Wall.

Answer: The intent is to remove loose mortar and repoint where the mortar is damaged. The "look" of the wall is to have the general rough character that it now has.

Question: Provide the correct detail as noted Sheet A-1.19 Room G318.

Answer: See the Revision #1 to drawing A-2.3, Details 6 and 7/A-2.3, and SK #1, which is attached. **SEE ATTACHMENT #2.**

Question: Provide missing door and hardware schedule.

Answer: Please refer to the revised Hardware Specification 08710 that has the Door Hardware Schedule 08710, 3.7 that is attached as SK #2 pg 1 and pg 2. **SEE ATTACHMENT # 1.**

Question: Door Relocation-The following doors and frames are designated to be relocated but have not been designated in the demolition drawings as to which doors are to be relocated to these locations; G109, G127a, G127b, & G317. Provide missing information.

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Answer: Door G109 is from the 4th Fl Conf. Rm. Door G127a is from the 4th Fl northwest Office. Door G127b is from the 4th Fl office opposite the center stairs. Door G317 is from the 3rd Fl office along the east wall.

Question: Specification 10261-What is height of the corner guards and at what elevation do they start at a.f.f.? Are corner guards to be provided on all drywall outside 90 degree corners at all levels? There is only reference on 2nd, 3rd & 4th floors not on main and 1st floor. Are corner guards required at masonry corners?

Answer: Corner Guards are equal to Arden CGF-2S. They start at the floor and go up 48" aff. The Corner Guards are to be provided on all drywall outside 90 degree corners on all floors. They are not required at masonry corner.

Question: Specification 10431-29.3.1.1-Specification directs to "see drawings for panel signs types, sizes and locations" none are noted on the drawings. Provide sign schedule with room locations and verbiage.

Answer: Use existing Room Signs. There will need to be less than ten new signs and those are to match existing. Some signs will need to be relocated. Refer to Photo #1-SEE ATTACHMENT #3.

Question: Sheet A-0.0-General Note #16 is on exterior of building, is this the owner furnished item and same for note #22.

Answer: The Owner will supply the building sign. The contractor will install it at the location chosen by the Owner. #22 will be provided by the Owner and installed by the Owner.

Question: Specification 10431-29.2.D.1.f-List location as room, 1-01 (Operations Building Lobby) There is no room listed as 1-01 or with the name Operations Building Lobby. Provide correct room number and name of location.

Answer: Delete Specification Section 10431- 2.2. There will not be a building plaque.

Question: Specification 10431-What are the sizes of the Interior Panel Signs? None provided in specifications.

Answer: Interior signs will match existing. See Photo #1-SEE ATTACHMENT #3

Question: Fire Extinguisher Cabinets-No specification for new cabinets or fire extinguisher Provide missing specification.

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Answer: Fire Extinguisher Cabinets will match existing. See Photo #2-SEE ATTACHMENT #4

Question: Sheet A-2.1-Provide the missing elevations as noted on 1 & 2 of A2.1, E1, W2 & W3.

Answer: Elevations E1, W2 and W3 are painted gyp brd with CT1 base.

Question: Specification 09620-Provide manufacture, none listed.

Answer: Use Armstrong Excelon Stonetex as the basis for design for VCT. Use Nora Rubber Noraplan Logicsheet goods as the basis for design for rubber flooring.

Question: Carpet-Specification 09680 does not provide a manufacturer nor model, color or tile sizes. Specification 09680-2.1.A.1 indicates to reference to finish schedule. Provide missing information.

Answer: Use Interface Entropy Coincidence as the basis of design. Product Number 3660200405.

Question: Vinyl Base-What size vinyl base is required? Lengths or rolls for installation?

Answer: Use 4" vinyl base from rolls.

Question: Toilet accessories-In existing restrooms where new toilet compartments are replacing existing, are existing toilet accessories to be reused? If not, provide a schedule of needed accessories.

Answer: Provide new toilet accessories listed in the Specification 10801 Toilet Accessories. Replace missing accessories in existing rest rooms.

Question: Acoustical Batt Insulation-Drawing A-1.18 refers to 4" Acoustical Batt Insulation. Is the complete ceiling for these two rooms only or are they 4-0 from wall dividing edge? No specification provide for type and manufacture of Acoustical Batt Insulation, Please provide. Is there any wall cavity insulation to be provide and where?

Answer: Use Owens Corning "QuietZone" Asoustical Batt insulation to cover the entire ceiling in the two rooms indicated. There is no wall cavity insulation.

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Question: Exterior Gypsum Board Ceilings and Soffits-Specification 09250-2.3.A references to exterior ceilings and Soffits, Provide locations where this application occurs on the drawings.

Answer: Delete references to exterior gyp board ceilings.

Question: Perforated steel-Drawing A-3.1 detail N1 & E1 indicates perorated steel in the fence design. Provide specification of material and manufacture.

Answer: Perforated steel sheets are to be 18 gauge powder coat painted steel, equal to Accuate Perforating Company's RS084 pattern. See SK #3-SEE ATTACHMENT #5

Question: Can you confirm that companies from both site visits will be able to bid the project?

Answer: See response to this question as stated above regarding Mandatory Site Visit.

Question: Will you be issuing a hardware schedule?

Answer: Yes. See revised Specification Section 08710-Door Hardware.

Question: Will you be issuing a signage schedule?

Answer: No. Interior Signage will match existing signage; see Photo 1a, 1b, and 1c as attached. **SEE ATTACHMENT #3**

Question: Will there be liquidated damages when the project exceeds 45 consecutive calendar days?

Answer: As stated above see the Liquidated Damages information; the contract term is for 45 Consecutive Days.

Question: Will there be a set of fire sprinkler drawings?

Answer: No. See Mechanical drawings for any sprinkler heads relocation.

Question: What will be the county's guaranteed turn around time for review of all construction submittals?

Answer: All <u>bids</u> will be evaluated and reviewed; the County does not provide a guaranteed turn around time on the bids that are submitted.

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The turn around time for review of all <u>construction</u> product data and shop drawings will take a minimum of five (5) working days.

Question: Where can the various dumpsters be place for the separation of demolition waste, construction waste, and recycling materials?

Answer: Due to limited space the contractor will be responsible for complying with the requirements of the authority having jurisdiction for temporary sidewalk or street closure to accommodate dumpsters.

Question: Will the bid date and time be extended?

Answer: No.

Question: Our company is bidding the doors, frames, and hardware for the job referenced above. Has a 4th addendum been issued for this project? There are no hardware sets listed in the specs. Please advise.

Answer: See revised Specification Section 08710-Door Hardware.

<u>Electrical Drawing E-1.1</u> – Light Fixture Schedule Sketch has been revised. **SEE ATTACHMENT #6**

<u>SECTION 07260-SURFACE APPLIED VAPOR REDUCTION SYSTEMS</u> – This new section has been added. **SEE ATTACHMENT #7.**

<u>SECTION 08520-ALUMINUM WINDOWS-</u> This new section has been added. **SEE ATTACHMENT #8.**

SECTION 08710-DOOR HARDWARE- This section is replaced with a revised section. **SEE ATTACHMENT #9.**

ATTACHMENTS

Attachment #1
Door Hardware Schedule – 08710-3.7 – SK#2 Page1 and Page 2

Attachment #2 Cabinetry – SK#1

Attachment #3 Signage – Photos #1a, 1b, 1c

Attachment #4
Fire Extinguisher – Photo #2

Attachment #5
Perforated Steel Pattern -- SK#3

Attachment #6
Electrical Drawing E-1.1
Light Fixture Schedule Sketch-Revised

Attachment #7
Section 07260-Surface Applied Vapor Reduction Systems
New Section Added

Attachment #8
Section 08520-Aluminum Windows
New Section Added

Attachment #9
Section 08710-Door Hardware
Section Replaced With a New Revised Section

Attachment #1 Door Hardware Schedule – 08710-3.7 – SK#2 Page1 and Page 2

Door Hardware Schedule - 08710 -3.7

Studio ALA

137 Peachtree Street Building

September 24, 2009

HEADING #1

DOORS#: G003, G006, G011, G012, G013, G014, G102, G109, G127a, G127b, G205, G210, G237a,

G237b, G303, G304, G305, G317, G338a, G401, G416

NOTE: EXISTING HARDWARE TO REMAIN.

HEADING #2

DOORS#: G007

EACH PAIR TO HAVE:

6 HINGES BB81
1 SET FLUSH BOLTS 7962
1 COORDINATOR 7600

1 LOCKSET 10G05 X 63 2 CLOSERS 7100

2 ARMOR PLATES 34" X 34" UL

DOOR STOPS 575

HEADING #3

DOORS#: G008

EACH DOOR TO HAVE:

3 HINGES BB81
-1 PASSAGE SET 10U15
1 DOOR STOP 510

HEADING #4

DOORS#: G103

EACH DOOR TO HAVE:

3 HINGES BB81
1 LOCKSET 10G05 X 63
1 CLOSER 7100
1 KICK PLATE 8" X 34"
1 DOOR STOP 510

SK# 2 pg 1 RFI # 18

Door Hardware Schedule - 08710 -3.7

HEADING #5

DOORS#: G107, G108, G403

EACH DOOR TO HAVE:

BB81 HINGES 10U65 PRIVACY SET 1 4" X 35" MOP PLATE

8" X 34" (DOOR G108 ONLY) KICK PLATE

DOOR STOP

HEADING #6

DOORS#: 1ST FLOOR DOOR AT STAIR 2

EACH DOOR TO HAVE:

BB81 HINGES

6200F X 629LPNH EXIT DEVICE

7100DS CLOSER 8" X 34" KICK PLATE

HEADING #7

DOORS#: 1ST FLOOR DOOR AT TRAINING/CONFERENCE

EACH DOOR TO HAVE:

BB81 HINGES 3

10G05 X 63 LOCKSET 7100DS CLOSER 8" X 34" KICK PLATE

HEADING #8

1

DOORS#: ENTRY GATE ACTIVE LEAF

EACH GATE TO HAVE:

6200 **EXIT DEVICE**

ET-PDL 1 **EXIT TRIM**

AL-HID1326 100 **ACCESS CARDS**

INACTIVE LEAF OF GATE TO HAVE FOOT BOLT AND LOCKING BY GATE NOTE:

MANUFACTURER.

NOTE: VERIFY THAT HARDWARE ON DOOR G101 IS PROPERLY FUNCTIONING

September 24, 2009 Peachtree

RFI #

*XSd #XS

N

Attachment #2 Cabinetry – SK#1

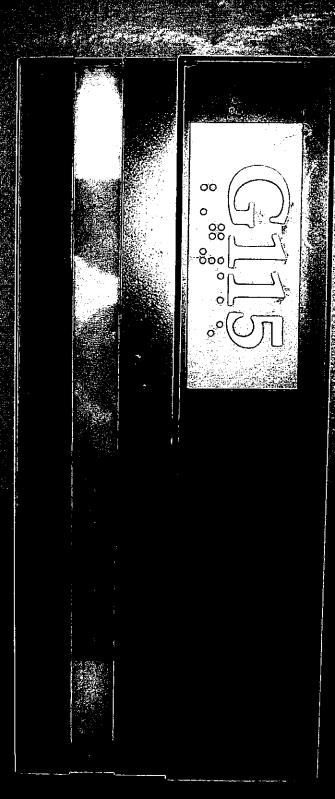
RFI # 11 & 17 SK# 1-1/2 PLASTIC LAMINATE-TRIN PIECE PLASTIC LAMINATE— COUNTERTOP - BASE-SEE FINISH SCHEDULE 1,-0, CABINET PULL, TYP.
ADJUSTABLE SHELF
STANDARDS AND
S SUPPORTS PLASTIC LAMINATE BASE CABINET PLASTIC LAMINATE INSIDE CABINET PLASTIC LAMINATE BULLNOSE EDGE BASE CABINET PLASTIC LAMINATE COUNTERTOP II [z/ı SCALE: PLASTIC LAMINATE
BACKSPLASH of
BREAK
ROOMS (NO
BACKSPAKEE IN
COPP. RMS. PLASTIC LAMINATE SHELF , 7, 1.-7 1/4 A-2.3 - 3/4 " SHELF WITH MELAMINE INISH TO MATCH PLASTIC LAMINATE ... 3/4 " DOOR WITH PLASTIC LAMINATE ON CONCEALED HINGES HINGES ... 3" WIRE PULLS OVERHEAD CABINET FLUSH MOUNTED ADJUSTABLE STANDARDS 1,-0, 3/4 " PAINTED REVEAL 137 Peachtree Street Building II SCALE: VARIES September 24, 2009 A-2.3 9 Studio ALA

Attachment #3 Signage – Photos #1a, 1b, 1c

©7 Peachtree St. Bldg. Renovation Photo #1a. RFI #21 & 22



04/13/2008

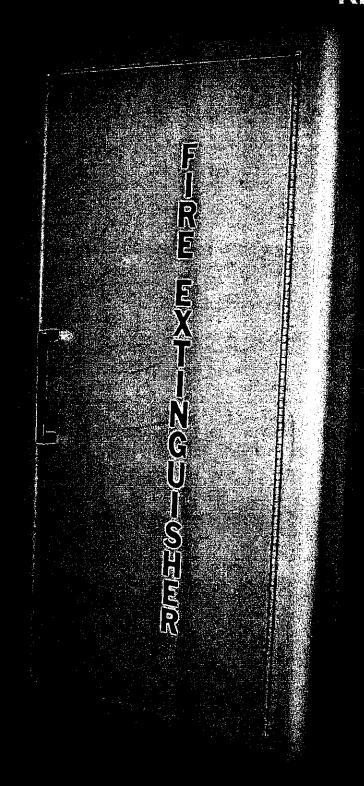




|37 Peachtree St. Bldg. Renovation Photo #1c

Attachment #4 Fire Extinguisher – Photo #2

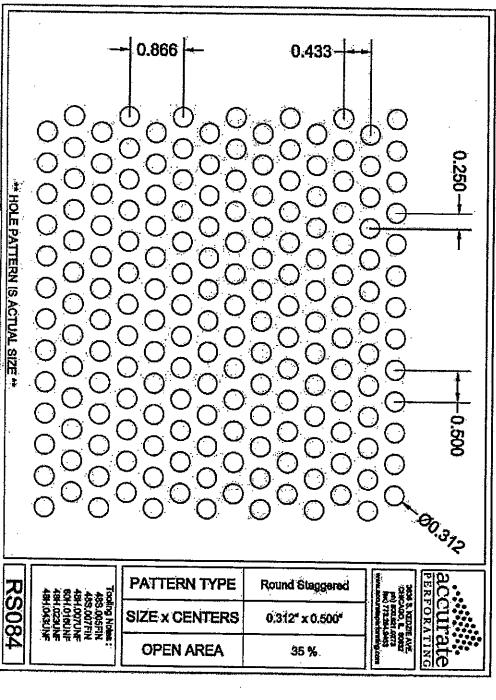
137 Peachtree St. Bldg. Renovation Photo #2 RFI #25



Attachment #5 Perforated Steel Pattern – SK#3



137 Peachtree Street Building September 24, 2009



Perforated Steel Pattern

SK# 3

Attachment # 6 Electrical Drawing E-1.1 Light Fixture Schedule Sketch – Revised

	LIGHTING FIXTURE SCHEDULE	TURE		2	旧	ULE	
J.F.E.	FIXTURE DESCRIPTION	MOUNTING	VOLTS	NPUT LAMPS	LAMPS	MANUFACTURER	REMARKS
83		RECESS GRID	120/ 277/	55		LITHONIA #2SPG-D-332-A12125-MVOLT- 1/3GEB10ISPWS1836-APB	
725	2'X4' FLUORESCENT TROFFER, .125" ACRYLIC PRISMATIC LENS, INBOARD/OUTBOARD ELECTRONIC BALLAST, RETURN AIR SLOTS, 6' PRE-WIRED FIXTURE WHIP	RECESS GRID	120/ 277/	95	F32T8 4100K	LITHONIA #2SPG-D-332-A12125-MVOLT- 1/21GEB10IS-PWS1836-APB	
	2'X2' FLUORESCENT TROFFER, .125" ACRYLIC PRISMATIC LENS, (1) 3—LAMP ELECTRONIC BALLAST, RETURN AIR SLOTS, 6' PRE-WIRED FIXTURE WHIP	RECESS GRID	120/ 277/	95		LITHONIA #2SPG-D3U31-A12125-MVOLT- 1/3GEB10IS-PWS1836-APB	
ಶ	4" STRIP FIXTURE, WHITE METAL HOUSING, ELECTRONIC BALLAST	SURFACE CEILING	120/ 277/	75	F32TB 4100K	LITHONIA #C-232-1/2GEB	
동	PENDANT BOWL, 19 1/2" DIA., "U.F.O." UP LIGHT	PENDANT CEILING	120/	₹ <u></u>	150W T3	ACCESS LIGHTING #50100-BS/OPL	
٥	6" DIA DOWNLIGHT, CLEAR OPEN ALZAK RELECTOR, VERTICAL LAMP, ELECTRONIC BALLAST	RECESS	120/ 277/	50	32W TRT	LITHONIA #LF6-1/32TRT-MV-F601AZ	
丟	8" DIA DOWNLIGHT, CLEAR OPEN ALZAK RELECTOR, VERTICAL LAMP, TEMPERED LENS	RECESS	12%	50	YOY HM	LITHONIA FLPGHN-70M-609A-173	
8	6" DIA DOWNLIGHT, CLEAR OPEN ALZAK RELECTOR, VERTICAL LAMP, DIMMIMG ELECTRONIC BALLAST	RECESS	120/	50	32W TRT	LITHONIA #LF6-1/32TRT-MV-F601AZ	
ä	EMERGENCY EGRESS LIGHT, 90-MIN. BATTERY BACK-UP, 2-HEADS, WHITE THERMOPLASTIC HOUSING	SURFACE	120	5	ENS.	DUAL-LITE #LZ2	
T12	LIGHTING TRACK, 12' TRACK LENGTH, SINGLE CIRCUIT, PENDANT SPOT TRACK HEAD AT 2' ON CENTER, WHITE FINISH	SURFACE CEILING	120	25	50W MR16	LITHONIA (TRACK) #L112-WH FIXTURE SPECIFIED BY ARCHITECT	
3	2'X4' FLUORESCENT FIXTURE, .125" ACRYLIC PRISMATIC LENS, (1) 3-LAMP ELECTRONIC BALLAST, MODULAR HOUSING	SURFACE CEILING	120/ 277/	95	F32T8 4100K	LITHONIA #2M-332-A12125-MVOLT- 1/3GEB10IS	
5	2'X2' FLUORESCENT FIXTURE, .125" ACRYLIC PRISMATIC LENS, (1) 3-LAMP ELECTRONIC BALLAST, MODULAR HOUSING	SURFACE	120/ 277/	95	F31T8 4100K	LITHONIA #2M-3U31-A12125-MVOLT- GEB10IS	
E	DIRECT/INDIRECT FLOURESCENT FIXTURE, 32' FIXTURE RUN LENGTH, 2 LAMP, RECESSED LIGHT BALLAST, (2) 4' EMERGENCY BATTERY BACK—UP LAMPS	RECESS CEILING	120/ 277/	95	54WT5H0 4100K		
> {	4' FLOURESCENT WALL FIXTURE, WHITE FINISH, UP/DOWN LIGHT, ELECTRONIC BALLAST	SURFACE Wall	120/	75	F32T8 4100K	LITHONIA #WS-232-A12125-MVOLT-GEB10IS	
₹ }	3' FLOURESCENT WALL FIXTURE, WHITE FINISH, UP/DOWN LIGHT, ELECTRONIC BALLAST	SURFACE	120/ 2772	ន	F25T8 4100K	LITHONIA #WS-225-A12125-MVOLT-GEB10IS	



PLITTE COUNTY









FEATURES & SPECIFICATIONS

INTENDED USE

For interior accent lighting applications. Allows flexibility in fixture height and positioning without lowering track section.

HOUSING

High quality metal lampholder ring.

Available in white or black finish.

YOKE/STEM

Heavy-gauge steel yoke allows rotation up to 330°.

Pivot mechanism allows adjustment up to 90° from vertical.

Extruded aluminum stems available in 12", 18", 24" and 36" lengths.

White stem utilized on white fixtures. Black stem utilized on black fixtures.

ΔΠΔΡΤΩ

Low-profile, injection-molded track mounting adaptor for easy attachment to Lithonia 1 or 2 circuit track. Snap lock secures adaptor to track.

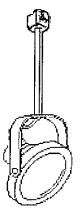
ELECTRICAL SYSTEM

Heavy-gauge metal socket housing with medium-base porcelain socket. Side-prong porcelain socket with injection-molded cover on PAR38/3.

LISTING

UL listed to U.S. and Canadian safety standards.

Catalog Number	
Notes	Туре

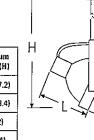


Incandescent Line Voltage

LTC

STEM-MOUNTED GIMBAL RING

PAR16, 20, 30, 38, 38/3 Lamps



Lamp Designation	Aperture (A)	Length (L)	Maximum Height (H)
PAR16	2-1/4 (5.9)	4-1/4 (10.9)	6-3/4 (17.2)
PAR20	2-3/4 (7.0)	4-1/2 (11.3)	7-1/4 (18.4)
PAR30	4 (10)	4-7/8 (12.5)	8 (20.2)
PAR38	5 (12.7)	6-1/2 (16.7)	10 (25.4)
PAR38/3	5 (12.7)	4 (10.2)	8 (20.3)

For correct maximum height information, add stem length (inches) to height listed in chart.
Ex: PAR16 maximum height with ST12 is 6-3/4" + 12" = 18-3/4".

All dimensions are in inches (centimeters).

ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog numbers (shipped separately).

LTC	GMBR
Series	Head Style
LTC	GMBR Gimbal ring

Lamp Designation

PAR16 PAR16 compatible (75W maximum)^{1,2}

PAR30 PAR30 compatible (50W maximum)
PAR30 PAR30 short-neck (75W maximum)
PAR38 PAR38 compatible (Q250W maximum)

PAR38/3 PAR38 side-prong compatible (150W maximum)

	Stem Length	
ST12	12" (30.5) mounting stem	V
ST18	18* (45.7) mounting stem	D

ST24 24* (60.9) mounting stem **ST36** 36* (91.4) mounting stem

Finish
WH White
DBL Black

Accessories

Order as separate catalog number.

LTGCS Filter holder for PAR20, PAR30, PAR38 or PAR38/3.

F400 Lens for use with PAR20 fixture only. LTGCS filter holder or 400 series barn door required.34

F500 Lens for use with PAR30 fixture only. LTGCS filter holder or 500 series barn door required.34

F700 Lens for use with PAR38 or PAR38/3 fixture only. LTGCS filter holder or 701 series barn door required.34

L400 Eggcrate louver for use with PAR20 fixture only. LTGCS filter holder or 400 series barn door required.4

L500 Eggcrate fouver for use with PAR30 fixture only. LTGCS filter holder or 500 series barn door required.4

L700 Eggcrate louver for use with PAR38 or PAR38/3 fixture only. LTGCS filter holder or 701 series barn door required.

LTGBD400 Barn door for PAR20 fixture. Specify white (WH) or black (DBL).

LTGBD500 Barn door for PAR30 fixture. Specify white (WH) or black (DBL).

LIGIDION Barn door for PARSO fixfule. Specify write (Win) of black (USL).

LTGBD701 Barn door for PAR38 or PAR38/3 fixture. Specify white (WH) or black (DBL).

NOTES:

1 Not compatible with Philips PAR16 lamp.

Example: LTC GMBR PAR16 ST12 WH

- 2 Accessories not available with PAR16 lamp.
- 3 For lens type (color selection information) refer to connectors and accessories tab.
- 4 A filter holder or barndoor is required when ordering a louver or lens.

Downlighting & Track

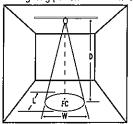
Sheet # 127-LINE-GMBR

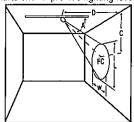
LINE-160

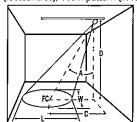
LTC Gimbal Ring, Stem-Mounted

LAMP PERFORMANCE DATA

The lighting performance data charts shown provide lighting levels (footcandles), beam pattern (in feet), rated lamp life.







FC

C

D

Aiming angle Distance (feet)

Beam width (50% of centerbeam candle power - feet)

Beam length (50% of centerbeam candle power - feet)

Footcandles, initial (centerbeam) Distance to beam center (feet)

				O° A	LIMING A	ANGLE		30° Aiming Angle					45° Aiming Angle						60° Aiming Angle				
Lamp	RATED Life	BEAM Spread	D	FC	W	L	C	D	FC	W	L	С	D	FC	W	L	C	Đ	FC	W	L	C	
60PAR16/HAL/NSP	2000	10°	4 6 8	313 139 78	0.7 1.1 1.4	0.7 1.1 1.4	N/A N/A N/A	4 6 8	203 90 51	0.8 1.2 1.6	0.9 1.4 1.9	2.3 3.5 4.6	3 4 5	196 110 71	0.7 1.0 1.2	1.1 1.4 1.8	3.0 4.0 5.0	2 3 4	156 69 39	0.7 1.1 1.4	1.4 2.2 2.9	3.5 5.2 6.9	
50PAR20/H/SP10	2500	10°	4 6 8	375 167 94	0.7 1.1 1.4	0.7 1.1 1.4	N/A N/A N/A	4 5 6	244 156 108	0.8 1.0 1.2	0.9 1.2 1.4	2.3 2.9 3.5	3 4 5	236 133 85	0.7 1.0 1.2	1.1 1.4 1.8	3.0 4.0 5.0	2 3 4	188 83 47	0.7 1.1 1.4	1.4 2.2 2.9	3.5 5.2 6.9	
50PAR20/H/FL25	2500	25°	3 4 5	167 94 60	1.3 1.8 2.2	1.3 1.8 2.2	N/A N/A N/A	2 3 4	244 108 61	1.0 1.5 2.1	1.2 1.8 2.4	1.2 1.7 2.3	2 3 4	133 59 33	1.3 1.9 2.5	1.9 2.8 3.7	2.0 3.0 4.0	2 3 4	47 21 12	1.8 2.7 3.6	4.2 6.2 8.3	3.5 5.2 6.9	
75PAR30/CAP/NSP	2500	9°	8 10 12	219 140 97	1.3 1.6 1.9	1.3 1.6 1.9	N/A N/A N/A	8 10 12	142 91 63	1.5 1.8 2.2	1.7 2.1 2.5	4.6 5.8 6.9	6 8 10	137 77 50	1.3 1.8 2.2	1.9 2.5 3.2	6.0 8.0 10.0	4 6 8	109 49 27	1.3 1.9 2.5	2.6 3.9 5.1	6.9 10.4 13.9	
75PAR30/CAP/NFL	2500	30°	4 6 8	200 89 50	2.1 3.2 4.3	2.1 3.2 4.3	n/a n/a n/a	4 6 8	130 58 32	2.5 3.7 5.0	2.9 4.4 5.9	2.3 3.5 4.6	2 4 6	283 71 31	1.5 3.0 4.6	2.3 4.6 6.9	2.0 4.0 6.0	2 3 4	100 44 25	2.1 3.2 4.3	5.5 8.2 10.9	3,5 5.2 6.9	
75PAR30/CAP/FL	2500	40°	4 6 8	125 56 31	2.9 4.4 5.8	2.9 4.4 5.8	N/A N/A N/A	3 4 5	144 81 52	2.5 3.4 4.2	3.1 4.1 5.1	1.7 2.3 2.9	3 4 5	79 44 28	3.1 4.1 5.2	5.0 6.7 8.4	3.0 4.0 5.0	2 3 4	63 28 16	2.9 4.4 5.8	9.7 14.5 19.3	3.5 5.2 6.9	
120PAR/CAP/SPL/SP	3000	9°	10 12 14	250 174 128	1.6 1.9 2.2	1.6 1.9 2.2	N/A N/A N/A	10 12 14	162 113 83	1.8 2.2 2.5	2.1 2.5 2.9	5.8 6.9 8.1	6 8 10	246 138 88	1.3 1.8 2.2	1.9 2.5 3.2	6.0 8.0 10.0	4 6 8	195 87 49	1.3 1.9 2.5	2.6 3.9 5.1	6.9 10.4 13.9	
120PAB/CAP/SPL/FL	3000	30°	4 6 8	313 139 78	2.1 3.2 4.3	2.1 3.2 4.3	N/A N/A N/A	4 6 8	203 90 51	2.5 3.7 5.0	2.9 4.4 5.9	2.3 3.5 4.6	4 6 8	110 49 28	3.0 4.6 6.1	4.6 6.9 9.2	4.0 6.0 8.0	2 3 4	156 69 39	2.1 3.2 4.3	5.5 8.2 10.9	3.5 5.2 6.9	
150PAR/SP	2000	12°	8 12 16	215 95 54	1.7 2.5 3.4	1.7 2.5 3.4	N/A N/A N/A	8 12 16	139 62 35	1.9 2.9 3.9	2.3 3.4 4.5	4.6 6.9 9.2	6 8 10	135 76 49	1.8 2.4 3.0	2.6 3.4 4.3	6.0 8.0 10.0	4 6 8	107 48 27	1.7 2.5 3.4	3.5 5.2 7.0	6.9 10.4 13.9	
150PAR/FL	2000	30°	4 8 12	215 54 24	2.1 4.3 6.4	2.1 4.3 6.4	N/A N/A N/A	4 6 8	139 62 35	2.5 3.7 5.0	2.9 4.4 5.9	2.3 3.5 4.6	4 6 8	76 34 19	3.0 4.6 6.1	4.6 6.9 9.2	4.0 6.0 8.0	2 4 6	107 27 12	2.1 4.3 6.4	5.5 10.9 16.4	3.5 6.9 10.4	
Q250PAR/SP10°	4200	10°	10 15 20	400 178 100	1.8 2.6 3.5	1.8 2.6 3.5	N/A N/A N/A	10 14 18	260 133 80	2.0 2.8 3.6	2.3 3.3 4.2	5.8 8.1 10.4	8 10 12	221 141 98	2.0 2.5 3.0	2.8 3.5 4.2	8.0 10.0 12,0	4 6 8	313 139 78	1.4 2.1 2.8	2.9 4.3 5.7	6.9 10.4 13.9	
Q250PAR/FL30°	4200	30°	8 12 16	141 63 35	4.3 6.4 8.6	4.3 6.4 8.6	N/A N/A N/A	6 8 10	162 91 58	3.7 5.0 6.2	4.4 5.9 7.3	3.5 4.6 5.8	4 6 8	199 88 50	3.0 4.6 6.1	4.6 6.9 9.2	4.0 6.0 8.0	3 4 5	125 70 45	3.2 4.3 5.4	8.2 10.9 13.7	5.2 6.9 8.7	
90PAR/CAP/3SP	2500	12°	8 12 16	188 83 47	1.7 2.5 3.4	1.7 2.5 3.4	N/A N/A N/A	8 12 16	122 54 30	1.9 2.9 3.9	2.3 3.4 4.5	4.6 6.9 9.2	6 8 10	118 66 42	1.8 2.4 3.0	2.6 3.4 4.3	6.0 8.0 10.0	4 6 8	94 42 23	1.7 2.5 3.4	3.5 5.2 7.0	6.9 10.4 13.9	
90PAR/CAP/3FL	2500	30°	4 6 8	234 104 59	2.1 3.2 4.3	2.1 3.2 4.3	N/A N/A N/A	4 6 8	152 68 38	2.5 3.7 5.0	2.9 4.4 5.9	2.3 3.5 4.6	3 4 5	147 83 53	2.3 3.0 3.8	3.5 4.6 5.8	3.0 4.0 5.0	2 3 4	117 52 29	2.1 3.2 4.3	5.5 8.2 10.9	3.5 5.2 6.9	

All data was calculated from each lamp manufacturer's published data and is subject to normal lamp variations. Maximum footcandle is usually at the aiming point, but not always on wider spread lamps. Lamp data supplied by manufacturers is approximate and individual lamp performance may vary.



An **SAcuity**Brands Company

Lithonia Lighting
Recessed Downlighting
One Lithonia Way, Conyers, GA 30012
Phone: 800-315-4935 Fax: 770-860-3106
In Canada: 160 avenue Labrosse, Pointe-Claire, P.Q., H9R 1A1 www.lithonia.com

Attachment #7 Section 07260-Surface Applied Vapor Reduction Systems New Section Added

SECTION 07260

SURFACE APPLIED VAPOR REDUCTION SYSTEMS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Furnish all labor, materials, tools and equipment as necessary to perform installation of a surface applied moisture mitigation system (vapor retarder) on existing concrete slabs free of oil contamination or previously treated with a sealer, as shown on drawings and as specified in this section.
- B. Repairs and preparation of concrete floors.
- C. Related Sections:
 - 1. See section 09620 Resilient Flooring.
 - See section 09680 Carpet.

1.2 REFERENCES

- A. ASTM F 1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride; 1998.
- B. ASTM E 1907 Standard Practices for Determining Moisture-Related Acceptability of Concrete Floors to Receive Moisture-Sensitive Finishes; 1997.
- C. ASTM E 96 Standard Test Methods for Water Vapor Transmission of Materials; 1995.
- D. ASTM D 4541 B Pull-Off Strength of Coatings; 1995, Modified.

1.3 SUBMITTALS

A. General:

Submit manufacturer's certification that proposed materials, details and systems as indicated and specified fully comply with manufacturer's details and specifications. If any portion of Contract Documents do not conform to manufacturer's standard recommendations, submit notification of portions of design that are at variance with manufacturer's specifications.

B. Product Data:

- 1. Submit manufacturer's literature, installation instructions and MSDS (Material Safety Data Sheet) for each product.
- 2. Test data: Submit independent testing laboratory data for product, evidencing:
 - a. up to 97% reduction of water vapor transmission (tested as per ASTM E 96-95).
 - b. product is insensitive to alkaline environment up to pH 14 (tested as per ASTM D 1308).

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Company specializing in manufacturing products specified in this Section with minimum 5 years documented experience.

B. Installer Qualifications:

1. Acceptable to manufacturer with documented experience on at least 3 projects of similar nature in past 5 years and/or training provided by the product manufacturer.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver and store in a dry, well ventilated area at minimum 50 deg F (10 deg C) and maximum 90 deg F (32 deg C).
- B. Deliver materials in manufacturer's unopened containers fully identified with brand, type, grade, class and all other qualifying information. Provide Material Safety Data Sheets for each product.

1.6 SYSTEM REQUIREMENTS

- A. Coordinate floor sealing installation with other trades.
- B. Provide materials and accessories in timely manner so as not to delay Work.

1.7 PROJECT CONDITIONS

- A. Maintain surfaces to be sealed and surrounding air temperature at not less than 50 deg F (10 deg C).
- B. Exercise caution when temperatures exceed 90 deg F (32 deg C).

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Approved Manufacturers: AQUAFIN, Inc. 505 Blue Ball Rd., #160, Elkton, MD, Phone (800) 394-1410 or (410) 392-2300; Fax (410) 392-2324; e-mail info@aquafin.net.
- B. Requests for substitutions will be considered only if submitted to the architect/engineer in writing and must include substantiation of product performance, 10 days prior to the original bid date.

2.2 MATERIALS

- A. Moisture Vapor Emission Reduction Control System (concrete floor sealer): One-part system consisting of a two-component, 100% solids, solvent free, moisture tolerant, high density, low odor, chemically enhanced epoxy based product which must reduce vapor emissions (MVER) to 3 lbs/24 hrs*1000 SF or less and be compatible with floor finishes and adhesives approved by the manufacturer. Characteristics:
 - 1. Product:

VAPORTIGHT COAT®-SG3/FC

2. Component-A and B:

Precise blend of clear and yellowish liquid

3. VOC content:

4. Bond/Adhesion: (ASTM D-4541) >220 psi (>1.5 Mpa) at 28 day old concrete

0

5. Permeance: (ASTM E-96) <0.5 perm ($<3.1E^{-08}$ grams/Pa*s*m²)

6. Alkaline Resistance: (ASTM D-1308) up to pH 14

7. Vapor Reduction: (ASTM E-96) up to 97%

8. Cured for installation of flooring: 12 hrs at 73 deg F (23 deg C)

9. pH on cured surface: 7

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine all construction substrates and conditions under which concrete floor sealer material is to be installed. Do not proceed with the concrete floor sealer installation until unsatisfactory conditions are corrected.
- B. Assure that surfaces to be treated do not contain any kind of sealer or organic compounds.

3.2 PREPARATION

- A. Protect adjacent surfaces not designated to receive concrete floor sealer.
- B. Substrate preparation:
 - 1. Remove existing floor coverings, coatings and adhesives down to bare concrete, curing compounds, efflorescence, dust, grease, laitance, etc. with steel shot blasting, abrasive (sand) blasting or grinding using a diamond cup blade. Acid etching is not allowed.
 - 2. Assure that all slabs have surface profile ICRI CSP 3 5 (ICRI, Des Plaines, IL, Guideline No. 03732.) for mechanical bond (i.e. medium grit sandpaper). Smooth surfaces are not acceptable, they must be shot blasted.
 - 3. Burn off reinforcing fibers and collect and vacuum remains.
 - 4. Repair defective areas such as honeycombs, cracks or other defects with a suitable repairing or manufacturer recommended mortar.
 - 5. Treat saw cut and expansion joints as per manufacturer's application guideline.
 - 6. Install cementitious underlayment, leveling mortars, flash patching, on top of surface applied concrete floor sealer.
 - 7. Carefully rinse or pre-dampen several times all the surfaces to be treated with clean water, leave no standing water.

3.3 INSTALLATION

- A. Mix concrete floor sealer material in proportions recommended by manufacturer.
- B. Apply concrete floor sealer material in quantities as per manufacturer's specifications and recommendations.
 - 1. Apply in one coat at specified rate.
 - 2. Apply using non-shed synthetic roller or notched squeegee to the still moist substrate, and carefully scrub it into the pores with a long handled scrub brush. Follow with a non-shed synthetic roller to achieve a uniform coverage.
- C. Where specified install leveling course as per manufacturer's specifications and recommendations.
- D. Where specified install floor covering as per manufacturer's specifications and recommendations.

E. Note:

- 1. Water based adhesives under VCT, sheet vinyl, linoleum, rubber backed carpet or other non-breathable flooring systems require a cementitious underlayment on top of the concrete floor sealer for their curing process. Consult adhesive manufacturer for recommended minimum thickness of cementitious underlayment.
- 2. Pressure sensitive adhesives installed directly over concrete floor sealer require a longer "tack" time than listed on manufacturer's literature to prevent adhesive moisture entrapment.

3.4 ACCEPTANCE

- A. Remove left over materials and any foreign material resulting from the work from the site.
- B. Clean adjacent surfaces and materials.

END OF SECTION

Attachment #8 Section 08520-Aluminum Windows New Section Added

SECTION 08520

ALUMINUM WINDOWS

1.1 GENERAL

A. Description of Work

1. This specification covers the furnishing and installation of material for fixed aluminum framed windows for interior locations. Products shall be as follows or as directed by the Owner. Installation procedures shall be in accordance with the products manufacturer's recommendations.

B. Summary

1. This Section includes fixed aluminum-framed windows.

C. Definitions

- 1. Performance class designations according to AAMA/WDMA 101/I.S.2/NAFS:
 - a. C: Commercial.

D. Performance Requirements

- 1. General: Provide aluminum windows capable of complying with performance requirements indicated, based on testing manufacturer's windows that are representative of those specified, and that are of minimum test size indicated helow:
 - Size required by AAMA/WDMA 101/I.S.2/NAFS for gateway performance.
 - b. Sizes indicated on Drawing A-1.6.
- 2. Thermal Movements: Provide aluminum windows, including anchorage, that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects.
 - a. Temperature Change (Range): 40 deg F ambient.

E. Submittals

- 1. Product Data: For each type of aluminum window indicated.
- 2. Shop Drawings: Include plans, elevations, sections, details, hardware, attachments to other work, and installation details
- 3. Samples: For each exposed finish.
- 4. Product Schedule: Use same designations indicated on Drawings.

Maintenance data.

Aluminum Windows 08520 - 1

F. Quality Assurance

- 1. Installer: A qualified installer, approved by manufacturer to install manufacturer's products.
- 2. Fenestration Standard: Comply with AAMA/WDMA 101/I.S.2/NAFS, "North American Fenestration Standard Voluntary Performance Specification for Windows, Skylights and Glass Doors," for definitions and minimum standards of performance, materials, components, accessories, and fabrication. Comply with more stringent requirements if indicated.
 - a. Provide AAMA, certified aluminum windows with an attached label.
- 3. Glazing Publications: Comply with published recommendations of glass manufacturers and with GANA's "Glazing Manual" unless more stringent requirements are indicated.
- 4. Preinstallation Conference: Conduct conference at Project site.

G. Warranty

- 1. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace aluminum windows that fail in materials or workmanship within specified warranty period.
 - a. Failures include, but are not limited to, the following:
 - 1) Failure to meet performance requirements.
 - 2) Structural failures including excessive deflection, water leakage, air infiltration, or condensation.
 - 3) Deterioration of metals, other materials, and metal finishes beyond normal weathering.
 - b. Warranty Period:
 - 1) Window: Three, years from date of Substantial Completion.
 - 2) Glazing: Five years from date of Substantial Completion.
 - 3) Metal Finish: Five 10 years from date of Substantial Completion.

1.2 PRODUCTS

A. Materials

- 1. Aluminum Extrusions: Alloy and temper recommended by aluminum window manufacturer for strength, corrosion resistance, and application of required finish, but not less than 22,000-psi (150-MPa) ultimate tensile strength, not less than 16,000-psi (110-MPa) minimum yield strength, and not less than 0.062-inch (1.6-mm) thickness at any location for the main frame and sash members.
- 2. Fasteners: Aluminum, nonmagnetic stainless steel, epoxy adhesive, or other materials warranted by manufacturer to be noncorrosive and compatible with aluminum window members, trim, hardware, anchors, and other components.
 - a. Reinforcement: Where fasteners screw anchor into aluminum less than 0.125 inch (3.2 mm) thick, reinforce interior with aluminum or

- nonmagnetic stainless steel to receive screw threads, or provide standard, noncorrosive, pressed-in, splined grommet nuts.
- b. Exposed Fasteners: Unless unavoidable for applying hardware, do not use exposed fasteners. For application of hardware, use fasteners that match finish of member or hardware being fastened, as appropriate.
- 3. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions; provide sufficient strength to withstand design pressure indicated.
- 4. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions; provide sufficient strength to withstand design pressure indicated.
- 5. Compression-Type Weather Stripping: Provide compressible weather stripping designed for permanently resilient sealing under bumper or wiper action and for complete concealment when aluminum window is closed.
 - a. Weather-Stripping Material: Elastomeric cellular preformed gaskets complying with ASTM C 509.
 - b. Weather-Stripping Material: Dense elastomeric gaskets complying with ASTM C 864.
 - c. Weather-Stripping Material: Manufacturer's standard system and materials complying with AAMA/WDMA 101/I.S.2/NAFS.
- 6. Replaceable Weather Seals: Comply with AAMA 701/702.
- 7. Sealant: For sealants required within fabricated windows, provide window manufacturer's standard, permanently elastic, nonshrinking, and nonmigrating type recommended by sealant manufacturer for joint size and movement.

B. Window

- 1. Window Type: As indicated on Drawing A-1.6.
- 2. AAMA/WDMA Performance Requirements: Provide aluminum windows of performance indicated that comply with AAMA/WDMA 101/I.S.2/NAFS.
 - a. Performance Class and Grade: C30.
- Sound Transmission Class (STC): Provide glazed windows rated for not less than 35, STC when tested for laboratory sound transmission loss according to ASTM E 90 and determined by ASTM E 413.

C. Glazing

- 1. Glass: Interior windows: Clear, tempered, insulating-glass units.
- D. Fabrication

- Fabricate aluminum windows in sizes indicated. Include a complete system for assembling components and anchoring windows.
- 2. Factory-Glazed Fabrication: Glaze aluminum windows in the factory where practical and possible for applications indicated. Comply with requirements in Division 08 Section "Glazing" and with AAMA/WDMA 101/I.S.2/NAFS.
- 4. Glazing Stops: Provide snap-on glazing stops coordinated with Division 08 Section "Glazing" and glazing system indicated. Provide glazing stops to match sash and ventilator frames.

E. Finishes, General

- 1. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- 2. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

F. Aluminum Finishes

- 1. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 611, to match existing.

1.3 EXECUTION

A. Installation

- Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing windows, hardware, accessories, and other components.
- 2. Install windows level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.
- 3. Set sill members in bed of sealant or with gaskets, as indicated, for weather tight construction.
- 4. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

B. Adjusting, Cleaning, and Protection

- 1. Clean aluminum surfaces immediately after installing windows. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
- 2. Clean factory-glazed glass immediately after installing windows. Comply with manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.
- 3. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.
- 5. Protect window surfaces from contact with contaminating substances resulting from construction operations. In addition, monitor window surfaces adjacent to and below exterior concrete and masonry surfaces during construction for presence of dirt, scum, alkaline deposits, stains, or other contaminants. If contaminating substances do contact window surfaces, remove contaminants immediately according to manufacturer's written recommendations.

END OF SECTION 08520

Attachment #9 Section 08710-Door Hardware Section Replaced With a New Revised Section

SECTION 08710

DOOR HARDWARE

PART 1 - - GENERAL

1.1 RELATED DOCUMENTS

A. A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Commercial door hardware for the following:
 - a. Swinging doors
 - b. Other doors to the extent indicated.
 - 2. Cylinders for doors to use existing except as indicated
- B. Related Sections include the following:
 - 1. Division 8 Section 08110.
 - Division 8 Section 08210.
 - 3. Division 8 Section 08311.
- C. Installation: General types and approximate quantities of door hardware are indicated in the list of door hardware sets to provide a basis for the cost of installation and other Work that is part of the Contract Sum but not included in door hardware allowance.

1.3 SUBMITTALS

- A. Product Data: Include construction and installation details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Samples for Verification: Submit minimum Samples of each type of finish required, except primed finish.
- C. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include final hardware and keying schedule.

D. Warranty: Special warranty specified in this Section.

E. Other Action Submittals:

- Door Hardware Sets: Prepared by or under the supervision of Architectural Hardware Consultant, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final door hardware sets with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - a. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule." Double space entries, and number and date each page.
 - b. Content: Include the following information:
 - 1) Identification number, location, hand, fire rating, and material of each door and frame.
 - 2) Type, style, function, size, quantity, and finish of each door hardware item.
 - 3) Complete designations of every item required for each door or opening including name and manufacturer.
 - 4) Fastenings and other pertinent information.
 - 5) Location of each door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - 6) Explanation of abbreviations, symbols, and codes contained in schedule.
 - 7) Mounting locations for door hardware.
 - 8) Door and frame sizes and materials.
 - 9) List of related door devices specified in other Sections for each door and frame.
 - c. Submittal Sequence: Submit initial draft of final schedule along with essential Product Data to facilitate the fabrication of other work that is critical in Project construction schedule. Submit the final door hardware sets after Samples, Product Data, coordination with Shop Drawings of other work, delivery schedules, and similar information has been completed and accepted.
- Keying Schedule: Prepared by or under the supervision of Architectural Hardware Consultant detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by lock manufacturer.
 - 1. Installer's responsibilities include supplying and installing door hardware and providing a qualified Architectural Hardware Consultant available during the course of the Work to consult with Contractor, Construction manager, and Owner about door hardware and keying.
 - 2. Installer shall have warehousing facilities in Project's vicinity.
 - 3. Scheduling Responsibility: Preparation of door hardware and keying schedules.
- B. Architectural Hardware Consultant Qualifications: A person who is currently certified by DHI as an Architectural Hardware Consultant and who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project.
- C. Source Limitations: Obtain each type and variety of door hardware from a single manufacturer, unless otherwise indicated.
- D. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252.
 - Test Pressure: After 5 minutes into the test, neutral pressure level in furnace shall be established at 40 inches or less above the sill.
- E. Keying Conference: Conduct conference at Project site to comply with requirements conference participants shall include Installer's Architectural Hardware Consultant and Owner's security consultant. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:
 - 1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 - 2. Preliminary key system schematic diagram.
 - 3. Address for delivery of keys.
- F. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination."

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.

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- B. Tag each item or package separately with identification related to the final door hardware sets, and include basic installation instructions, templates, and necessary fasteners with each item or package.
- C. Templates: Distribute door hardware templates for doors, frames, and other work specified to be factory prepared for installing door hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirement
- D. Existing Openings: Where new hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide for proper operation.

1.6 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including excessive deflection, cracking, or breakage.
 - b. Faulty operation of operators and door hardware.
 - Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.
 - 2. Warranty Period: Two years from date of Substantial Completion, except as follows:
 - a. Exit Devices: Two years from date of Substantial Completion.
 - b. Manual Closers: 10 years from date of Substantial Completion.

1.7 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

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2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in this Section and door hardware sets indicated .
 - 1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturers' products.
 - 2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
- B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in Part 3 "Door Hardware Sets" Article. Products are identified by using door hardware designations, as follows:
 - 1. References to BHMA Standards: Provide products complying with these standards and requirements for description, quality, and function.
- C. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
 - 1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.
 - 2. Manufacturers: Subject to compliance with requirements, provide products by the manufacturers specified.

2.2 HINGES, GENERAL

- A. Quantity: Provide the following, unless otherwise indicated:
 - 1. Two Hinges: For doors with heights up to 60 inches.
 - 2. Three Hinges: For doors with heights 61 to 90 inches.
 - 3. Four Hinges: For doors with heights 91 to 120 inches.
 - 4. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
- B. Template Requirements: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.
- C. Hinge Weight: Unless otherwise indicated, provide the following:
 - 1. Doors with Closers: Antifriction-bearing hinges.
 - 2. Interior Doors: Standard-weight hinges.

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- D. Hinge Base Metal: Unless otherwise indicated, provide the following:
 - 1. Exterior Hinges: Stainless steel, with stainless-steel pin
 - 2. Interior Hinges: Steel, with steel pin
 - 3. Hinges for Fire-Rated Assemblies: Steel, with steel pin
- E. Hinge Options: Where indicated in door hardware sets or on Drawings:
 - Nonremovable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for outswinging exterior doors
 - 2. Corners: Square
- F. Fasteners: Comply with the following:
 - 1. Machine Screws: For metal doors and frames. Install into drilled and tapped holes.
 - 2. Wood Screws: For wood doors and frames.
 - 3. Threaded-to-the-Head Wood Screws: For fire-rated wood doors.
 - Screws: Phillips flat-head; machine screws (drilled and tapped holes) for metal doors wood screws for wood doors and frames Finish screw heads to match surface of hinges.

2.3 HINGES

- A. Butts and Hinges: BHMA A156.1. Listed under Category A in BHMA's "Certified Product Directory."
- B. Template Hinge Dimensions: BHMA A156.7.
- C. Manufacturers:
 - 1. Bommer (BOM).
 - 2. PBB Hinges (PBB).
 - Ives (IVE).

2.4 LOCKS AND LATCHES, GENERAL

- A. Accessibility Requirements: Where indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA),
 - 1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.

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- B. Latches and Locks for Means of Egress Doors: Comply with NFPA 101. Latches shall not require more than 15 lbf to release the latch. Locks shall not require use of a key, tool, or special knowledge for operation.
 - 1. Dummy Trim: Match lock trim and escutcheons.
 - 2. Lockset Designs: Sargent LP
- C. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:
 - 1. Cylindrical Locks: Minimum 1/2-inch latchbolt throw.
- D. Backset: 2-3/4 inches, unless otherwise indicated.
- E. Strikes: Manufacturer's standard strike with strike box for each latchbolt or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, and as follows:

2.5 MECHANICAL LOCKS AND LATCHES

- A. Lock Functions: Function numbers and descriptions indicated in door hardware sets comply with the following:
 - 1. Cylindrical Locks: BHMA A156.2 Series 4000.
 - Manufacturers:
 - a. Sargent, a division of ASSA/Abloy with interchangeable core.
 - b. PDQ Manufacturing with interchangeable core.

2.6 DOOR BOLTS

- A. Bolt Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows
 - Fire-Rated Surface Bolts: Minimum 1-inch throw; listed and labeled for fire-rated doors.
 - 2. Mortise Flush Bolts: Minimum 3/4-inch throw.
- B. Dustproof Strikes: BHMA A156.16, Grade 1.
- C. Manual Flush Bolts: BHMA A156.16, Grade 1 designed for mortising into door edge.
 - Manufacturer
 - a. Burns Manufacturing (BUR)
 - b. Door Controls International (DCI).
 - c. Glynn-Johnson; an Ingersoll-Rand Company (GJ).
- D. Automatic and Self-Latching Flush Bolts: BHMA A156.3, Grade 1 designed for mortising into door edge.

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- Manufacturers:
 - a. Burns Manufacturing (BUR)
 - b. Door Controls International (DCI).
 - c. Glynn-Johnson; an Ingersoll-Rand Company (GJ).

2.7 EXIT DEVICES

- A. Exit Devices: BHMA A156., Grade 1
- B. Accessibility Requirements: Where handles, pulls, latches, locks, and other operating devices are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)."
 - 1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf
- C. Exit Devices for Means of Egress Doors: Comply with NFPA 101. Exit devices shall not require more than 15 lbf to release the latch. Locks shall not require use of a key, tool, or special knowledge for operation.
- D. Panic Exit Devices: Listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305.
- E. Fire Exit Devices: Devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252.
- F. Outside Trim: material and finish to match locksets, unless otherwise indicated.
 - 1. Match design for locksets and latchsets, unless otherwise indicated.
- G. Through Bolts: For exit devices and trim.
- H. Manufacturers:
 - PDQ Manufacturing (PDQ).
 - Von Duprin (VON).

2.8 LOCK CYLINDERS

- A. Manufacturers:
 - Sargent, a division of ASSA/Abloy to match existing interchangeable core system.

2.9 KEYING

- A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, Appendix A. Incorporate decisions made in keying conference, and as follows:
 - 1. Master Key System: Cylinders are operated by a change key and a master key.
- B. Keys: Nickel silver.
 - Stamping: Permanently inscribe each key with a visual key control number.
 - 2. Quantity: In addition to one extra key blank for each lock, provide the following:
 - a. Cylinder Change Keys: Three.
 - b. Master Keys: Five.

2.10 KEY CONTROL SYSTEM

- A. Key Control Cabinet: BHMA A156.5, Grade 1; metal cabinet with bakedenamel finish; containing key-holding hooks, labels, 2 sets of key tags with selflocking key holders, key-gathering envelopes, and temporary and permanent markers; with key capacity of 20 keys
 - 1. Wall-Mounted Cabinet: Cabinet with hinged-panel door equipped with key-holding panels and pin-tumbler cylinder door lock.
- B. Cross-Index System: Multiple-index system for recording key information. Include three receipt forms for each key-holding hook. Set up by Owner.

Manufacturers:

- a. Key Control Systems, Inc. (KCS).
- b. Lund Equipment Co., Inc. (LUN).
- c. MMF Industries (MMF).
- d. Sunroc Corporation (SUN). Key Lock Boxes:
- e. Knox Company (KNX).

2.11 CLOSERS

A. Accessibility Requirements: Where handles, pulls, latches, locks, and other operating devices are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act.

- Addendum #4
 - 1. Comply with the following maximum opening-force requirements:
 - a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf applied perpendicular to door.
 - b. Sliding or Folding Doors: 5 lbf applied parallel to door at latch.
 - c. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
 - B. Door Closers for Means of Egress Doors: Comply with NFPA 101. Door closers shall not require more than 30 lbf to set door in motion and not more than 15 lbf to open door to minimum required width.
 - C. Size of Units: Unless otherwise indicated, comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.
 - D. Surface Closers: BHMA A156.4, Grade 1 Provide type of arm required for closer to be located on non-public side of door, unless otherwise indicated.
 - 1. Manufacturers:
 - a. Corbin Russwin Architectural Hardware; an ASSA ABLOY Group company (C
 - b. LCN Closers; an Ingersoll-Rand Company (LCN).
 - c. PDQ Manufacturing (PDQ)
 - E. Coordinators: BHMA A156.3.

2.12 PROTECTIVE TRIM UNITS

- A. Size: 1-1/2 inches less than door width on push side and 1/2 inch less than door width on pull side, by height specified in door hardware sets.
- B. Fasteners: Manufacturer's standard machine or self-tapping screws.
- C. Metal Protective Trim Units: BHMA A156.6; beveled top and 2 sides; fabricated from the following material:
 - 1. Material: 0.050-inch- thick stainless steel.
 - Manufacturers:
 - a. Burns Manufacturing Incorporated (BUR)
 - b. IVES Hardware; an Ingersoll-Rand Company (IVS).
 - c. Rockwood Manufacturing Company (RM)

2.13 STOPS AND HOLDERS

- A. Stops and Bumpers: BHMA A156.16, Grade 1
 - Provide floor stops for doors unless wall or other type stops are scheduled or indicated. Do not mount floor stops where they will impede traffic. Where floor or wall stops are not appropriate, provide overhead holders.
- B. Mechanical Door Holders: BHMA A156.16, Grade 1.
- C. Silencers for Metal Door Frames: BHMA A156.16, Grade 1; neoprene or rubber, minimum diameter 1/2 inch; fabricated for drilled-in application to frame.
- D. Manufacturers:
 - 1. Burns Manufacturing (BUR)
 - 2. IVES Hardware; an Ingersoll-Rand Company (IVS).
 - Rockwood Manufacturing Company (RM).

2.14 DOOR GASKETING

- A. Standard: BHMA A156.22. Listed under Category J in BHMA's "Certified Product Directory."
- B. General: Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated or scheduled. Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.
 - 1. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
 - Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
 - 3. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.
- C. Air Leakage: Not to exceed 0.50 cfm per foot of crack length for gasketing other than for smoke control, as tested according to ASTM E 283.
- D. Smoke-Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke-control ratings indicated, based on testing according to UL 1784.
 - 1. Provide smoke-labeled gasketing on 20-minute-rated doors and on smoke-labeled doors.

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- E. Fire-Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252.
 - Test Pressure: After 5 minutes into the test, neutral pressure level in furnace shall be established at 40 inches or less above the sill
- F. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- G. Gasketing Materials: ASTM D 2000 and AAMA 701/702.
- H. Manufacturers:
 - 1. National Guard Products (NGP).
 - 2. Reese Enterprises (REE)

2.15 THRESHOLDS

- A. Standard: BHMA A156.21. Listed under Category J in BHMA's "Certified Product Directory."
- B. Accessibility Requirements: Where thresholds are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA).
 - 1. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch high.
- C. Thresholds for Means of Egress Doors: Comply with NFPA 101. Maximum 1/2 inch high.
- D. Manufacturers:
 - 1. National Guard Products (NGP).
 - 2. Reese Enterprises (RE).

2.16 Security Hardware:

- A. Manufacturers:
 - 1. Alarm Lock (ALA)

2.17 FABRICATION

- A. Manufacturer's Nameplate: Do not provide products that have manufacturer's name or trade name displayed in a visible location except in conjunction with required fire-rated labels and as otherwise approved by Construction Manager.
 - 1. Manufacturer's identification is permitted on rim of lock cylinders only.
- B. Base Metals: Produce door hardware units of base metal, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18. Do not furnish manufacturer's standard materials or forming methods if different from specified standard.
- C. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
 - Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.
 - 2. Steel Machine or Wood Screws: For the following fire-rated applications:
 - a. Mortise hinges to doors.
 - b. Strike plates to frames.
 - c. Closers to doors and frame
 - 3. Fasteners for Wood Doors: Comply with requirements in DHI WDHS.2, "Recommended Fasteners for Wood Doors."

2.18 FINISHES

- A. Standard: BHMA A156.18, as indicated in door hardware sets.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within

the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Steel Doors and Frames: Comply with DHI A115 Series.
 - 1. Surface-Applied Door Hardware: Drill and tap doors and frames according to ANSI A250.6.
- B. Wood Doors: Comply with DHI A115-W Series.

3.3 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights indicated as follows unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

- 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
- 2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- C. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

3.4 FIELD QUALITY CONTROL

A Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 30 degrees.
 - 2. Door Closers: Unless otherwise required by authorities having jurisdiction, adjust sweep period so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.

3.6 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.7 HARDWARE SCHEDULE

HEADING #1

DOORS#: G003, G006, G011, G012, G013, G014, G102, G109, G127a, G127b,

G205, G210, G237a, G237b, G303, G304, G305, G317, G338a, G401, G416

NOTE: EXISTING HARDWARE TO REMAIN.

HEADING #2

DOORS#: G007

EACH PAIR TO HAVE:

6	HINGES	BB81
1	SET FLUSH BOLTS	7962
1	COORDINATOR	7600
1	LOCKSET	10G05 X 63
2	CLOSERS	7100
2	ARMOR PLATES	34" X 34" UL
2	DOOR STOPS	575

HEADING #3

DOORS#: G008

EACH DOOR TO HAVE:

3	HINGES	BB81
1	PASSAGE SET	10U15
1	DOOR STOP	510

HEADING #4

DOORS#: G103

EACH DOOR TO HAVE:

3	HINGES	BB81
1	LOCKSET	10G05 X 63
1	CLOSER	7100
1	KICK PLATE	8" X 34"
1	DOOR STOP	510

DOORS#: G107, G108, G403

EACH DOOR TO HAVE:

3	HINGES	BB81
1	PRIVACY SET	10U65
1	MOP PLATE	4" X 35"

1 KICK PLATE 8" X 34" (DOOR G108 ONLY)

1 DOOR STOP 510

HEADING #6

DOORS#: 1ST FLOOR DOOR AT STAIR 2

EACH DOOR TO HAVE:

3 HINGES BB81

1 EXIT DEVICE 6200F X 629LPNH

1 CLOSER 7100DS 1 KICK PLATE 8" X 34"

HEADING #7

DOORS#: 1ST FLOOR DOOR AT

TRAINING/CONFERENCE

EACH DOOR TO HAVE:

3 HINGES BB81

1 LOCKSET 10G05 X 63 1 CLOSER 7100DS 1 KICK PLATE 8" X 34"

HEADING #8

DOORS#: ENTRY GATE ACTIVE LEAF

EACH GATE TO HAVE:

1 EXIT DEVICE 6200 1 EXIT TRIM ET-PDL SECTION – 08710 – Door Hardware REVISED 9-29-09

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ACCESS CARDS

AL-HID1326

NOTE:

INACTIVE LEAF OF GATE TO HAVE FOOT BOLT AND LOCKING BY GATE

MANUFACTURER.

NOTE: VERIFY THAT HARDWARE ON DOOR G101 IS PROPERLY FUNCTIONING

END OF SECTION 08710

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ACKNOWLEDGEMENT OF ADDENDUM NO. 4

The undersigned proposer acknowledges receipt of this addendum by returning one (1) copy of this form with the proposal package to the Purchasing Department, Fulton County Public Safety Building, 130 Peachtree Street, Suite 1168, Atlanta, Georgia 30303 by the ITB due date and time Monday, October 5, 2009, 11:00 A.M.

This is to acknowledge receipt of Ad 2009.	dendum No. 4, day of
	Legal Name of Bidder
	Signature of Authorized Representative
	 Title